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## **CLAIMS**

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- 1. A method of gene transfer including the steps of:
  - (i) transforming a recipient plant cell or tissue by microprojectile bombardment with DNA directly isolated from a donor plant, and
  - (ii) selectively propagating a transgenic plant from the transformed recipient plant cell or tissue obtained in step (i).
- 2. The method of Claim 1, wherein a selection construct is included at step (i).
  - 3. The method of Claim 1 wherein the DNA is genomic DNA.
  - 4. The method of Claim 3 wherein the DNA is a high molecular weight fraction of genomic DNA.
  - 5. The method of Claim 1 wherein the donor plant and the recipient plant are members of different genera.
    - 6. The method of Claim 1 wherein the donor plant and the recipient plant are members of different species.
    - 7. The method of Claim 1 wherein the donor plant and the recipient plant is a cereal.
- 20 8. The method of Claim 7 wherein the donor plant is of the species

  Zizania palustris.
  - 9. The method of any preceding claim wherein the recipient plant is of the species *Oryza sativa*.

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Claim 1.

- 23 A recipient plant cell or tissue transformed according to step (i) of
- A transgenic plant, a genome of which has at least 0.01% of a 11. genome of a donor plant integrated therein
- 5 12. The transgenic plant of Claim 11, wherein said genome has at least 0.1% of said donor plant genome integrated therein.
  - The transgenic plant of Claim 12, wherein said genome has at least 13. 1.0% of said donor plant genome integrated therein.
- 14. The transgenic plant of Claim 13, wherein said genome has at least 10 10% of said donor plant genome integrated therein.
  - 15. A transgenic cereal plant according to any one of Claims 10-14.
  - A transgenic O. sativa plant according to any one of Claims 10-14. 16.
  - 17. A transgenic plant produced according to the method of any one of Claims 1-9.
- A transgenic plant according to any one of Claims 11-17, which 15 18. transgenic plant has one or more phenotypic traits of said donor plant not normally present in said recipient plant.
  - A fruit or grain obtained from the transgenic plant of any one of 19. Claims 11-/18.
- A seed obtained from the transgenic plant of any one of Claims 11-20 20. 18.
  - A progeny plant propagated from the transgenic plant of any one of 21. Claims 11-18.